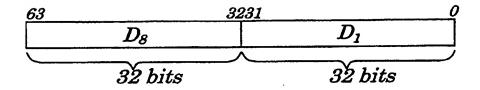


FIG.2



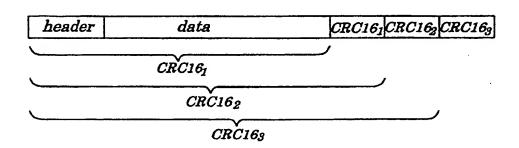
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D29-D31
C14
R27-R28-R31-D01-D02-D05-D07-D08-D10-D12-D13-D16-D18-D23-D30     Z01-Z02-Z08-Z08-Z08-Z08-Z10-Z11-Z13-Z14-Z15-R00-R01-R05-R07-R09-R10-R12-C13-R13-R14-R15-D01-D02-D03-D04-D05-D08-D13-D14-D15-D18-D21-D22-D28-D27-D28-D30-D31     Z00-Z01-Z04-Z05-Z07-Z08-Z08-Z10-Z12-Z13-Z14-Z18-R00-R01-R02-R03-R04-R08-C12-R10-R13-R15-R21-R22-R23-R24-D01-D03-D07-D10-D14-D15-D17-D18-D21-D23-D24-D28-D28     Z00-Z01-Z04-Z08-Z10-Z14-R03-R04-R05-R07-R08-R11-R13-R15-R16-R18-R20-R22-C11-R23-R25-R28-R27-R28-R28-R31-D00-D01-D03-D04-D08-D09-D10-D11-D13-D14-D17-D18-D23-D25-D27-D28-D30     Z00-Z05-Z08-Z09-Z13-R00-R03-R04-R07-R09-R11-R12-R15-R17-R18-R25-R27-R29-R30-R31-D00-D01-D02-D07-D09-D14-D18-D21-D22-D24-D25-D28-D27-D30     Z04-Z07-Z08-Z12-Z15-R02-R04-R06-R07-R12-R16-R20-R21-R22-R23-R25-R27-R20-R31-D03-D05-D07-D11-D13-D18-D18-D18-D21-D24-D25-D27-D29-D30     Z03-Z06-Z07-Z11-Z14-Z15-R02-R08-R10-R11-R12-R13-R14-R18-R17-R18-R21-R21-R22-R23-Z06-Z10-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R08-R09-R10-R11-R12-C07-R13-R16-R17-R20-R21-R22-R23-R26-R27-R30-R31-D06-D08-D08-D10-D11-D13-D14-D17-D18-D18-D18-D22-D24-D25-D28-D08-D08-D10-D11-D12-D14-D17-D18-D18-D18-D22-D24-D26-D27-D28-R29-R20-R21-R22-R23-R28-R27-R30-R31-D06-D08-D08-D08-D10-D11-D12-D14-D17-D18-D18-D18-D22-D24-D28-R27-R28-R28-R27-R28-R28-R27-R28-R28-R27-R28-R28-R27-R28-R28-R27-R28-R28-R27-R28-R28-R28-R27-R28-R28-R28-R27-R28-R28-R28-R28-R28-R28-R28-R28-R28-R28
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C12 R10·R13·R15·R21·R22·R23·R24·D01·D03·D07·D10·D14·D15·D17·D19·D21·D23·D24·D28·D28·D28·D28·D28  Z00·Z01·Z04·Z09·Z10·Z14·R03·R04·R05·R07·R08·R11·R13·R15·R16·R18·R20·R22·C01 R22·R25·R26·R27·R28·R29·R31·D00·D01·D03·D04·D08·D09·D10·D11·D13·D14·D17·D18·D23·D25·D27·D28·D30  C10 Z00·Z05·Z08·Z09·Z13·R00·R03·R04·R07·R09·R11·R12·R15·R17·R18·R25·R27·R29·R30·R31·D00·D01·D02·D07·D09·D14·D18·D21·D22·D24·D25·D28·D27·D30  C00 Z04·Z07·Z08·Z12·Z15·R02·R04·R05·R07·R12·R16·R20·R21·R22·R23·R25·R27·R20·R31·D03·D05·D07·D11·D13·D15·D18·D19·D21·D24·D25·D27·D29·D30  C00 Z03·Z06·Z07·Z11·Z14·Z15·R02·R09·R10·R11·R12·R13·R14·R18·R17·R18·R18·R21·R22·R23·R26·R27·R20·R31·D03·D05·D07·D10·D11·D13·D16·D17·D19·D21·D23·D27·D28·D07·D28·D30  C00 Z03·Z06·Z10·Z13·Z14·Z15·R00·R01·R02·R03·R04·R05·R08·R09·R10·R11·R12·C07  R13·R15·R17·R20·R21·R22·R23·R26·R27·R30·R31·D05·D08·D00·D10·D11·D12·D14-D17·D18·D18·D18·D22·D24·D26·D27·D31  C01 Z01·Z04·Z05·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·R29·Z04·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·R29·Z04·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·R29·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z10·Z13·Z14·Z15·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z09·Z12·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R29·R29·Z06·Z06·Z06·Z06·Z06·Z10·Z13·Z14·R07·R08·R10·R12·R14·R15·R18·R22·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27·R28·R28·R27
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C10
R30-R31-D00-D01-D02-D07-D09-D14-D18-D21-D22-D24-D25-D28-D27-D30     204-207-208-212-215-R02-R04-R06-R07-R12-R18-R20-R21-R22-R23-R25-R27-R30-R31-D03-D05-D07-D11-D13-D18-D18-D18-D21-D24-D25-D27-D29-D30     203-206-207-211-214-215-R02-R09-R10-R11-R12-R13-R14-R18-R17-R18-R21-R22-R23-R24-R25-R27-R20-D01-D08-D07-D09-D14-D15-D16-D17-D19-D21-D23-D27-D28-D27-D28-D28-208-210-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R08-R09-R10-R11-R12-R13-R16-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D08-D10-D11-D12-D14-D17-D18-D19-D22-D24-D26-D27-D31     201-204-206-209-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-R29-R29-R29-R29-R28-R28-R27-R28-R29-R29-R29-R28-R28-R28-R28-R28-R28-R28-R28-R28-R28
C08
R31-D03-D05-D07-D11-D13-D18-D18-D19-D21-D24-D25-D27-D29-D90  203-206-207-Z11-Z14-Z15-R02-R09-R10-R11-R12-R13-R14-R18-R17-R18R19-R21- R22-R24-R25-R27-R26-D01-D05-D07-D09-D14-D15-D16-D17-D19-D21-D23-D27-D28- Z02-Z05-Z06-Z10-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R08-R09-R10-R11-R12-R13-R15-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D08-D10-D11-D12-D14-D17-D18-D19-D22-D24-D26-D27-D31  201-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-R29-
Z03-Z06-Z07-Z11-Z14-Z15-R02-R09-R10-R11-R12-R13-R14-R16-R17-R18R15-R21- R22-R24-R25-R27-R26-D01-D05-D07-D09-D14-D15-D16-D17-D19-D21-D23-D27-D26 Z02-Z05-Z06-Z10-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R08-R09-R10-R11-R12- R13-R15-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D08-D10-D11-D12-D14- D17-D18-D19-D22-D24-D26-D27-D31 Z01-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
R22-R24-R25-R27-R26-D01-D03-D07-D09-D14-D15-D16-D17-D19-D21-D23-D27-D28 Z02-Z05-Z06-Z10-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R08-R09-R10-R11-R12- C07 R13-R15-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D08-D10-D11-D12-D14- D17-D18-D19-D22-D24-D26-D27-D31 Z01-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
Z02-Z05-Z06-Z10-Z13-Z14-Z15-R00-R01-R02-R03-R04-R05-R06-R09-R10-R11-R12- C07 R13-R15-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D06-D10-D11-D12-D14- D17-D18-D19-D22-D24-D26-D27-D31 C04 Z01-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
C07 R13-R15-R17-R20-R21-R22-R23-R26-R27-R30-R31-D05-D08-D06-D10-D11-D12-D14- D17-D18-D19-D22-D24-D26-D27-D31 C04 Z01-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
D17-D18-D18-D22-D24-D26-D27-D31 201-Z04-Z05-Z08-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
201-Z04-Z05-Z09-Z12-Z13-Z14-R07-R08-R10-R12-R14-R15-R18-R22-R27-R28-R29-
Z00-Z03-Z04-Z08-Z11-Z12-Z13-
C03 R00-R03-R04-R05-R04-R09-R10-R14-R18-R18-R18-R20-R28-R19-R31-
D00-D02-D04-D05-D07-D09-D17-D21-D23-D24-D26-D27-D28-D24-D30-D31
202-203-207-210-211-212-215-
004 R02-R04-R12-R14-R17-R18-R20-R22-R23-R28-
D00-D02-D03-D04-D05-D10-D11-D12-D13-D14-D17-D19-D20-D23-D25-D26-D27-D29-D31
Z01-Z02-Z06-Z06-Z10-Z11-Z14-
CC3 R01-R02-R04-R06-R07-R08-R09-R13-R14-R15-R16-R21-R24-R28-R28-
D04-D05-D06-D10-D14-D15-D16-D17-D18-D19-D20-D21-D22-D23-D24-D26-D28-D29-D30
Z00-Z03-Z04-Z05-Z07-Z08-Z11-Z12-R01-R02-R03-R04-R05-R06-R06-R11-R13-R14-
002 R15-R17-R19-R20-R23-R24-R25-R27-R28-R29-R30-
D01-D04-D05-D07-D08-D14-D15-D18-D18-D19-D21-D22-D23-D26-D27-D28
202-203-204-208-206-210-211-215-
CO1 ROO-RO1-RO2-RO4-RO7-RO8-R11-R14-R15-R18-R20-R21-R22-R23-R25-R28-R30-
D00-D01-D03-D65-D07-D08-D12-D16-D17-D19-D22-D23-D24-D26-D26-D31
Z02-Z04-Z05-Z08-Z08-Z11-Z12-Z13-Z14-
000 R01-R04-R06-R06-R06-R10-R13-R14-R19-R22-R24-R28-R31-
D00-D01-D02-D04-D06-D09-D12-D18-D19-D20-D21-D25-D27-D29-D30-D31

015	R01+R03+R04+R07+R08+R10+R11+R12+R13+R15+D00+D02+D03+D04+D05+D07+D08+ D11+D12+D14+D18+D19+D20+D21+D23+D27+D30+D32+D33+D35+D36+D36+D41+D43+
	D44+D49+D51+D52+D56+D60
	R00-R02-R03-R06-R07-R09-R10-R11-R12-R14-R15-D00-D01-D03-D04-D05-D06-
C14	D08-D09-D12-D13-D15-D19-D20-D21-D22-D24-D28-D31-D33-D34-D38-D37-D39-
	D42+D44+D45+D50+D52+D53+D57+D81
	R01-R02-R05-R06-R08-R09-R10-R11-R13-R14-R15-D00-D01-D02-D04-D06-D06-
C13	D07-D09-D10-D13-D14-D18-D20-D21-D22-D23-D25-D29-D32-D34-D35-D37-D38-
	D40-D43-D45-D46-D51-D53-D54-D58-D62
	R00-R01-R04-R05-R07-R08-R09-R10-R12-R13-R14-R15-D00-D01-D02-D03-
012	D05-D06-D07-D08-D10-D11-D14-D15-D17-D21-D22-D23-D24-D26-D30-D33-D35-
	D36-D38-D39-D41-D44-D46-D47-D52-D54-D55-D59-D63
	R00-R01-R06-R06-R10-R14-D01-D05-D06-D09-D14-D15-D16-D18-D20-D21-D22-
C11	D24-D30-D31-D32-D33-D34-D35-D37-D38-D38-D40-D41-D42-D45-D44-D45-D47-
	D48+D49+D51+D52+D53+D55
	R00-R05-R08-R08-R13-D02-D08-D07-D10-D15-D18-D17-D20-D21-D22-D23-D25-
C10	D28-D31-D32-D33-D34-D35-D38-D38-D39-D40-D41-D42-D43-D44-D45-D46-D48-
	D49-D50-D52-D53-D54-D56
	R04-R07-R08-R12-R15-D00-D03-D07-D08-D11-D18-D17-D18-D21-D22-D23-D24-
COS	D26-D27-D32-D33-D34-D35-D36-D37-D39-D40-D41-D42-D43-D44-D45-D46-D47-
	D49-D50-D51-D53-D54-D55-D57
	R03-R06-R07-R11-R14-R15-D00-D01-D04-D08-D09-D12-D17-D18-D19-D22-D23- D24-D25-D27-D28-D33-D34-D35-D36-D37-D38-D40-D41-D42-D43-D44-D45-D48-
C08	
	D47-D48-D50-D51-D52-D54-D55-D56-D58 R02-R05-R06-R10-R13-R14-R15-D00-D01-D02-D05-D09-D10-D18-D18-D18-D19-D20-
	D23-D24-D25-D28-D28-D28-D34-D35-D36-D37-D38-D39-D41-D42-D43-D44-D45-
C07	D46-D47-D48-D49-D51-D52-D53-D56-D57-D59
	R01-R04-R05-R09-R12-R13-R14-D01-D02-D03-D08-D10-D11-D14-D19-D20-D21-
C08	D24-D25-D26-D27-D29-D30-D36-D36-D37-D38-D39-D40-D42-D43-D44-D45-D48-
~~	D47-D48-D49-D50-D52-D53-D54-D56-D57-D58-D60
-	R00-R03-R04-R08-R11-R12-R13-D02-D03-D04-D07-D11-D12-D15-D20-D21-D22-
C05	D25-D26-D27-D28-D30-D31-D36-D37-D38-D39-D40-D41-D43-D44-D45-D48-D47-
	D48-D49-D50-D51-D53-D54-D55-D57-D58-D59-D61
	R02-R03-R07-R10-R11-R12-R15-D00-D03-D04-D05-D08-D12-D13-D16-D21-D22-
C04	D23-D26-D27-D28-D29-D31-D32-D37-D38-D39-D40-D41-D42-D44-D45-D48-D47-
	D48-D49-D50-D51-D52-D54-D55-D56-D58-D59-D60-D62
	R01-R02-R06-R09-R10-R11-R14-D01-D04-D05-D06-D09-D13-D14-D17-D22-D23-
COS	D24-D27-D28-D29-D30-D32-D33-D38-D39-D40-D41-D42-D43-D45-D46-D47-D48-
	D49-D50-D51-D52-D53-D55-D56-D57-D69-D60-D61-D63
	R00-R03-R04-R05-R07-R09-R11-R12-D03-D04-D06-D08-D10-D11-D12-D15-D19-
C02	D20-D21-D24-D25-D27-D28-D29-D31-D32-D34-D35-D36-D38-D38-D40-D42-D46-
	D47-D48-D50-D53-D54-D57-D58-D61-D82
	R02-R03-R04-R06-R08-R10-R11-R15-D00-D04-D05-D07-D09-D11-D12-D13-D16-
001	D20-D21-D22-D25-D26-D28-D29-D30-D32-D35-D35-D35-D39-D40-D41-D43-
	D47-D48-D49-D61-D54-D55-D58-D59-D62-D63
	R02-R04-R05-R08-R09-R11-R12-R13-R14-D01-D02-D03-D04-D06-D07-D10-D11-
COO	D13-D17-D18-D19-D20-D22-D26-D29-D31-D32-D34-D35-D37-D40-D42-D43-D48-
1	D50-D51-D55-D59-D63

FIG.5

		FIG.0
(1)	$D_{o}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	·	$egin{array}{ c c c c c c c c c c c c c c c c c c c$
		$egin{array}{ c c c c c c c c c c c c c c c c c c c$
		$egin{array}{ c c c c c c c c c c c c c c c c c c c$
(2)	$D_8$	$CR_{00}$ $CR_{01}$ $CR_{02}$ $CR_{03}$
(3)	$D_4$	$CR_{10}$ $CR_{11}$ $CR_{12}$
(4)	$D_{\delta}$	
(5)	$D_{m{ heta}}$	$CR_{10}$ $CR_{11}$ $CR_{12}$ $CR_{13}$
(6)	$D_{11}$	$igg(BD_0igg)BD_1igg)BD_2igg)BD_3igg)BD_4igg)$
		$egin{array}{ c c c c c c c c c c c c c c c c c c c$
		$DB_1$ $DB_6$ $DB_{10}$ $CRC32_0$ $CRC16_0$
		$DB_3$ $DB_7$ $DB_{11}$ $CRC32_1$ $CRC16_1$

FIG.6



*FIG.7* 

	one byte			
#1	DB <sub>0</sub>	$DB_1$	$DB_2$	$DB_3$
#2	DB 4	DB <sub>5</sub>	DB6	DB 7
#3	DB <sub>8</sub>	$DB_{\theta}$	$DB_{10}$	DB <sub>11</sub>

#k-2	DB n-4	$DB_{n\cdot 3}$	$DB_{n-2}$	$DB_{n-1}$
#k-1	$DB_{n}$	CRC1610	CRC1611	CRC1620
#k	CRC1621	CRC1630	CRC1631	

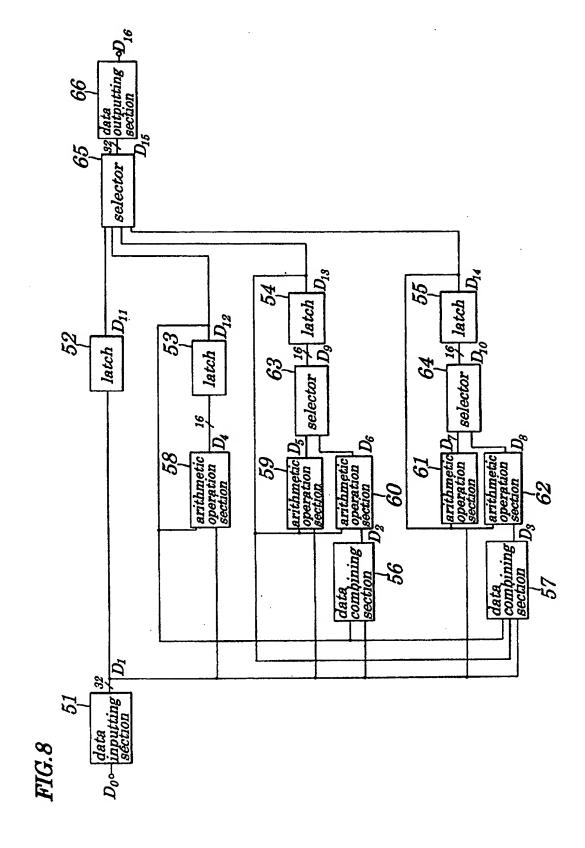
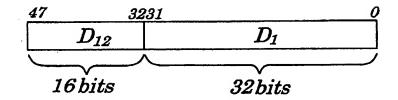
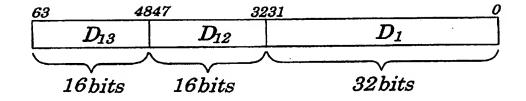


FIG.9



# FIG.10



	Z01-Z04-Z08-Z10-Z11-Z12-Z13-
015	R00+R02+R03+R04+R05+R06+R10+R11+R12+R13+R15+
9.5	D00-D07-D09-D10-D12-D13-D14-D15-D16-D18-D19-D20-D21-D22-D23-D24-D26-D27-
	D28-D29-D31
	Z00-Z03-Z07-Z08-Z10-Z11-Z12·
014	R01+R03+R04+R05+R06+R07+R11+R12+R13+R14+
	D01-D02-D05-D06-D09-D10-D11-D14-D15-D16-D18-D21-D22-D24-D25-D26-D29-D30
	Z02-Z06-Z08-Z09-Z10-Z11-Z15-
013	R00+R02+R06+R08+R10+R14+
	D00+D01-D04-D08+D15+D18+D19+D27+D30+D31
	Z01-Z05-Z07-Z08-Z09-Z10-Z14-
C12	R01+R03+R07+R09+R11+R15+
	D00-D01-D04-D05-D07-D10-D12-D19-D21-D22-D25-D31
	Z00-Z01-Z06-Z07-Z09-Z10-Z11-Z12-Z15-
011	R00+R03+R04+R06+R07+R08+R10+R11+R12+
	D00-D04-D07-D11-D12-D14-D16-D18-D19-D20-D23-D27-D28-D29
	200-205-206-208-208-210-211-214-215-
C10	R01+R04+R05+R07-R08+R08+R11+R12+R13+
	D00-D01-D02-D03-D05-D08-D09-D11-D14-D15-D17-D18-D21-D22-D28-D27-D28-D29
	Z04-Z05-Z07-Z08-Z09-Z10-Z13-Z14-Z15-
COS	R00+R02+R05+R06+R08+R00+R10+R12+R13+R14+
	D00-D03-D06-D09-D11-D13-D15-D16-D17-D21-D22-D25-D26-D27-D28-D30-D31
	Z03-204-206-Z07-Z08-Z09-Z12-Z13-Z14-
008	R01+R03+R06-R07+R09-R10+R11+R13-R14+R15+
""	D00-D03-D04-D05-D07-D11-D14-D20-D23-D24-D25-D26-D27-D28-D30-D31
	Z02·Z03·Z05·Z06·Z07·Z08·Z11·Z12·Z13·
C07	R02-R05-R08-R11-R13-R14-
<u> </u>	D01-D03-D08-D09-D12-D17-D18-D25-D26-D27-D28-D29-D30
	Z01-Z02-Z04-Z05-Z06-Z07-Z10-Z11-Z12-
006	R03+R04+R05+R06+R07+R09+R10+R13+R14+
	D01-D02-D03-D04-D08-D12-D13-D14-D18-D24-D28-D28-D29
	Z00·Z01·Z03·Z04·Z05·Z08·Z09·Z10·Z11·
C05	R06-R08-R11-R12-R13-R14-
	D01-D02-D03-D05-D06-D07-D10-D11-D12-D14-D15-D16-D18-D24-D25-D26-D28
	Z00-Z02-Z03-Z04-Z05-Z08-Z09-Z10-Z18-
C04	R00-R07-R09-R12-R13-R14-R15-
<u></u>	D01-D02-D03-D05-D07-D08-D10-D11-D12-D13-D18-D17-D19-D20-D23-D24-D31
	Z01-Z02-Z03-Z04-Z07-Z08-Z09-Z14-
C03	R01-R08-R10-R13-R14-R15- D00-D02-D05-D08-D08-D11-D12-D13-D17-D18-D19-D20-D21-D22-D23-D28-D28-D30-
1	
<u></u>	081
	700-702-703-704-705-701-715-
C02	R03-R06-R07-R09-R14-R15- D00-D01-D03-D04-D05-D06-D11-D13-D15-D19-D21-D22-D24-D25-D26-D28-D28-D30
	1 DOU-DUI-DOS-DOS-TOS-700-710-711-718-
	Z01-Z02-Z03-Z05-Z06-Z09-Z10-Z11-Z15-
C01	R00-R05-R08-R12-R13-   D00-D02-D03-D04-D05-D06-D07-D09-D12-D13-D14-D15-D18-D19-D21-D22-D25-D27-
	D28-D30
	Z00-Z02-Z05-Z09-Z11-Z12-Z13-Z14-
C00	R01-R02-R03-R04-R05-R09-R10-R11-R12-R14-R15-
١***	D00-D02-D05-D11-D12-D14-D15-D21-D22-D25-D30
1	1

C15	Z01-Z04-Z08-Z10-Z11-Z12-Z13- D02-D03-D04-D05-D07-D11-D14-D18-D17-D18-D20-D22-D25-D27-D28-D33-
	D35-D36-D40-D44
C14	Z00-Z03-Z07-Z09-Z10-Z11-Z12- D03-D04-D05-D08-D08-D12-D15-D17-D18-D20-D21-D23-D26-D28-D29-D34-
017	D86-D37-D41-D45
	Z02-Z08-Z08-Z09-Z10-Z11-Z15-
013	D00-D04-D05-D08-D07-D09-D13-D16-D18-D18-D19-D21-D22-D24-D27-D29-D30- D35-D37-D38-D42-D48
	Z01-Z05-Z07-Z08-Z09-Z10-Z14-
C12	D01-D05-D06-D07-D08-D10-D14-D17-D19-D20-D22-D23-D25-D28-D30-D31- D26-D38-D39-D43-D47
	Z00-Z01-Z08-Z07-Z09-Z10-Z11-Z12-Z15-
011	D00-D03-D04-D05-D06-D08-D09-D14-D15-D16-D17-D18-D19-D21-D22-D23-
	D24-D25-D26-D27-D28-D29-D31-D32-D33-D35-D36-D37-D39
010	D00-D01-D04-D05-D06-D07-D09-D10-D15-D16-D17-D18-D19-D20-D22-D28-
	D24-D25-D26-D27-D28-D29-D30-D32-D33-D34-D37-D38-D38-D40 Z04-Z05-Z07-Z08-Z09-Z10-Z18-Z14-Z15-
COS	D00-D01-D02-D05-D08-D07-D08-D10-D11-D16-D17-D18-D19-D20-D21-D23-
	D24-D25-D26-D27-D28-D29-D30-D31-D33-D34-D35-D37-D38-D39-D41
C08	Z03·Z04·Z06·Z07·Z08·Z09·Z12·Z13·Z14· D01·D02·D03·D06·D07·D08·D09·D11·D12·D17·D18·D19·D20·D21·D22·D24·
-	D25-D26-D27-D28-D29-D30-D31-D32-D34-D35-D36-D38-D39-D40-D42
	Z02-Z08-Z05-Z06-Z07-Z08-Z11-Z12-Z13- D02-D03-D04-D07-D08-D09-D10-D12-D13-D18-D19-D20-D21-D22-D23-D25-
C07	D28-D27-D28-D29-D30-D31-D32-D33-D35-D36-D37-D39-D40-D41-D43
	701-702-704-705-704-207-Z10-Z11-Z12-
C06	D03-D04-D05-D08-D09-D10-D11-D13-D14-D19-D20-D21-D22-D23-D24-D26- D27-D28-D29-D30-D31-D32-D33-D34-D36-D37-D38-D40-D41-D42-D44
$\vdash$	Z00-Z01-Z03-Z04-Z05-Z06-Z09-Z10-Z11-
COS	D04-D08-D08-D09-D10-D11-D12-D14-D15-D20-D21-D22-D23-D24-D25-D27- D28-D29-D30-D31-D32-D33-D34-D35-D37-D38-D39-D41-D42-D43-D45
<b> </b>	Z00-Z02-Z03-Z04-Z05-Z08-Z09-Z10-Z15-D00-D06-D08-D07-D10-D11-D12-D13-
C04	D15-D15-D21-D22-D23-D24-D25-D25-D25-D29-D30-D31-D32-D33-D34-D35-
<u></u>	D38-D39-D40-D42-D43-D44-D46
COS	Z01-Z02-Z03-Z04-Z07-Z08-Z09-Z14- D01-D08-D07-D08-D11-D12-D13-D14-D16-D17-D22-D23-D24-D25-D26-D27-
L	D28-D30-D31-D32-D33-D34-D35-D36-D37-D39-D40-D41-D43-D44-D45-D47
200	Z00-Z02-Z03-Z04-Z06-Z07-Z10-Z11-Z12- D03-D04-D05-D08-D09-D11-D12-D13-D15-D16-D18-D19-D20-D22-D23-D24-
002	D26-D30-D31-D32-D34-D37-D38-D41-D42-D45-D46-
	701-702-703-205-706-Z09-Z10-Z11-Z15-
C01	D00-D04-D05-D06-D09-D10-D12-D13-D14-D15-D17-D19-D20-D21-D23-D24- D25-D27-D31-D32-D33-D35-D38-D39-D42-D43-D46-D47
-	700-Z02-Z05-Z09-Z11-Z12-Z13-Z14-
COO	
1	D34-D35-D39-D43-D47

	R01-R03-R04-R07-R08-R10-R11-R12-R13-R15-Z03-Z04-Z05-Z08-Z10-Z11-Z12-
015	X01-X05-X08-X07-X09-X14-D00-D01-D02-D06-D09-D16-D19-D20-D23-D24-D26-
	D28
	R00-R02-R03-R06-R07-R08-R10-R11-R12-R14-R15-Z00-Z04-Z05-Z06-Z06-Z11-
C14	Z12-Z13-X00-X08-X05-X08-X09-X11-X12-X13-X14-D00-D03-D04-D05-D06-D07-
	DG8+D11-D18-D15-D17-D18-D19-D24-D27-D28-D29-D80
	PO1-PO5-PO5-PO6-RO6-RO9-R10-R11-R13-R14-R15-Z00-Z01-Z02-Z04-Z07-Z08-
CIS	Z10-Z11-X01-X04-X05-X06-X07-X08-X11-X12-X13-X15-D01-D03-D04-D08-D11-
0.0	D14-D15-D16-D20-D21-D22-D23-D31
	D00-D01-D04-D05-D07-R08-R09-R10-R12-R13-R14-R15-Z00-Z01-Z02-Z03-Z04-
G12	Z08-Z08-Z11-Z13-Z15-X00-X03-X04-X05-X08-X07-X10-X11-X12-X14-D08-D08-
OIZ	D10-D11-D13-D15-D21-D22-D24-D26-D31
	R00-R01-R06-R09-R10-R14-Z00-Z01-Z04-Z06-Z07-Z08-Z15-X03-X04-X05-X06-
-44	X07-X11-X13-X14-X15-D02-D04-D05-D06-D07-D08-D10-D12-D16-D20-D21-
011	
	D22-D23-D24-D25-D26-D28-D31 R00-R05-R08-R08-R13-Z01-Z02-Z04-Z08-Z08-Z10-Z12-Z13-Z15-X02-X05-X08-
١	X10-X11-X18-D00-D02-D03-D04-D08-D11-D14-D15-D16-D18-D18-D21-D22-
010	
	D24-D26-D28-D31 R04-R07-R08-R12-R15-Z02-Z03-Z05-Z09-Z10-Z11-Z13-Z14-X01-X04-X08-X08-
	X10-X12-D00-D01-D02-D04-D08-D10-D12-D13-D14-D16-D17-D19-D25-D26-
COO	
L	D27-D29-D30 R03-R09-R07-R11-R14-R15-Z03-Z04-Z06-Z10-Z11-Z12-Z14-Z15-X00-X04-X06-
l	R03-R08-R07-R11-R14-R16-203-204-206-210-211-211-211-211-211-211-211-211-211
C06	
L	D26-D27-D29-D30   R02-R05-R08-R10-R13-R14-R15-Z00-Z02-Z05-Z09-Z10-Z12-Z13-Z14-X01-X02-
	R02-R05-R05-R10-R13-R14-R15-200-202-203-203-203-006-008-009-012-D13-
007	X03-X07-X10-X11-X13-X14-D00-D01-D02-D08-D04-D05-D06-D08-D09-D12-D13-
<u></u>	D14-D15-D17-D19-D28-D28-D30 R01-R04-R05-R09-R11-R13-R14-Z00-Z01-Z02-Z03-Z04-Z08-Z07-Z08-Z13-X00-
	R01-R04-R05-R08-R12-R13-R14-200-201-202-203-204-204-011-D13-D16-D17-
C06	
	D20-D21-D22-D23-D24-D25 R00-R03-R04-R08-R11-R12-R13-Z00-Z01-Z03-Z04-Z07-Z08-Z08-Z10-Z11-Z12-
	R00-R03-R04-R08-R11-R12-R13-200-201-203-204-207-207-207-207-207-207-207-207-207-207
C05	Z13-X01-X09-X11-X13-X15-D00-D02-D04-D05-D08-D17-D20-D23-D26-D27-D28-
	D29-D31
	R02-R03-R07-R10-R11-R12-R15-Z01-Z02-Z07-Z08-Z05-Z11-Z14-Z15-X00-X03-
004	X04-X06-X08-X09-X10-X11-D01-D03-D04-D09-D11-D14-D15-D18-D20-D21-D22-
L	D23-D31
	R01-R02-R06-R06-R10-R11-R14-Z00-Z02-Z03-Z04-Z05-Z07-Z08-Z08-Z13-X02-
COS	X04-X05-X08-X07-X06-X10-X11-X12-X14-X15-D00-D02-D03-D12-D13-D14-D15-
l	D14-D24-D28-D27-D28-D29-D30-D31
	R00-R03-R04-R05-R07-R05-R11-R12-Z00-Z01-Z02-Z04-Z06-Z07-Z10-Z12-Z15-
002	
1	D23-D25-D30-D31
	R02+R03+R04+R06+R08+R10+R11+R15-Z01+Z03+Z07-Z08-Z09+Z12-Z14-X00-X02-
C01	xna.xna.xna.xna.x10.x13.x14.x15.D02.D03.D04.D07.D06.D04.D14.D14.D14.
	1 - 4 4 4
	PAA-DAA-DAK-PRO-PRO-PRO-P11-P19-P11-R14-Z02-Z03-Z04-Z07-Z04-Z10-Z11-MS
000	
	D22 · D24 · D30 · D31

FIG.14

(1) D <sub>0</sub>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
(2) $D_4$ (3) $D_{12}$	$CR_{00}$ $CR_{01}$ $CR_{02}$ $CR_{03}$ $CR_{03}$ $CR_{03}$ $CR_{02}$ $CR_{03}$ $CR_{03}$
<ul> <li>(4) D<sub>5</sub></li> <li>(5) D<sub>6</sub></li> <li>(6) D<sub>13</sub></li> </ul>	$\begin{array}{c c} & CR_{10} \ CR_{11} \ CR_{12} \ \end{array} \\ \begin{array}{c c} & CR_{10} \ CR_{11} \ CR_{12} \ \end{array} \\ \\ \begin{array}{c c} & CR_{10} \ CR_{11} \ CR_{12} \ CR_{13} \ \end{array} \\ \end{array}$
<ul> <li>(7) D<sub>7</sub></li> <li>(8) D<sub>8</sub></li> <li>(9) D<sub>14</sub></li> </ul>	$CR_{20}$ $CR_{21}$ $CR_{22}$ $CR_{23}$ $CR_{23}$ $CR_{20}$ $CR_{21}$ $CR_{22}$ $CR_{23}$
(10) D <sub>16</sub>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

## FIG. 15 (PRIOR ART)

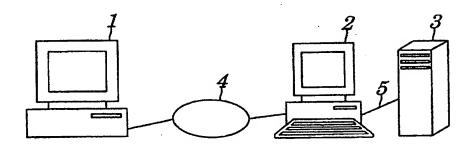


FIG. 16 (PRIOR ART)

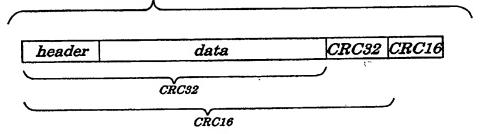


FIG. 17 (PRIOR ART)

,	one byte	9		
#1	$DB_0$	$DB_1$	$DB_2$	$DB_3$
#2	$DB_4$	$DB_5$	$DB_6$	$DB_7$
#3	$DB_8$	$DB_{9}$	$DB_{10}$	$DB_{11}$
•			<u> </u>	
			:	•

#k-2	$DB_{n\cdot\delta}$	$DB_{n-4}$	$DB_{n\cdot 3}$	$DB_{n-2}$
#k-1	$DB_{n-1}$	$DB_n$	$CRC32_0$	$CRC32_1$
#k	$CRC32_2$	$CRC32_3$	CRC16 <sub>0</sub>	CRC16 <sub>1</sub>

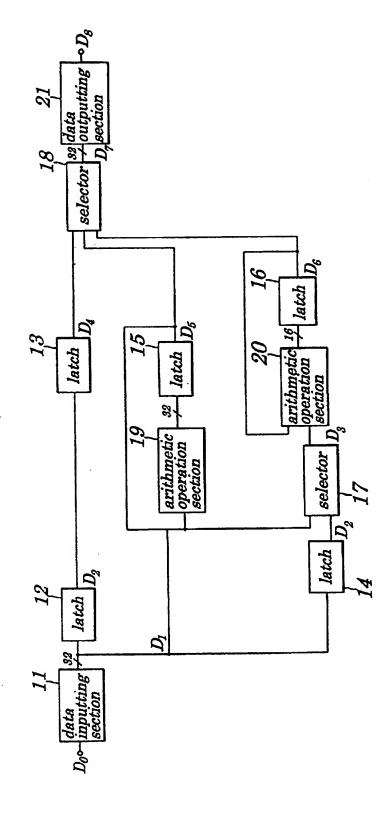
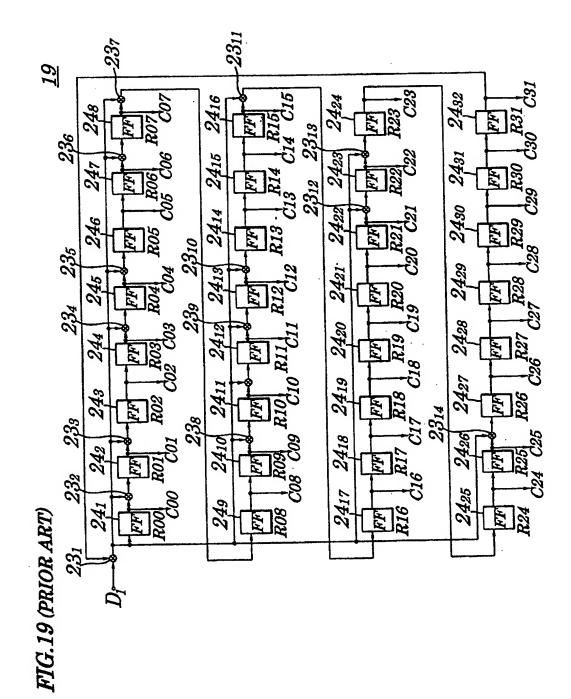


FIG. 18 (PRIOR ART)



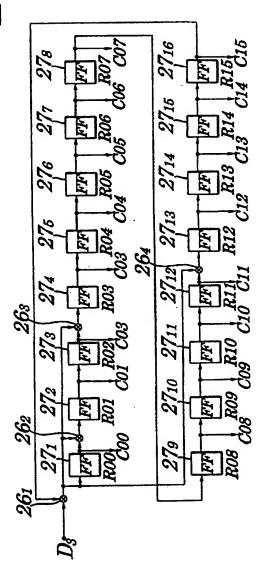
## FIG.20 (PRIOR ART)

C30 R05-R08-R09-R11-R15-R23-R24-R25-R27-R28-R29-R30-R31-D00-D01-D02-D03-D04-D08-D08-D16-D20-D22-D23-D26  R04-R07-R08-R10-R14-R22-R23-R24-R26-R27-R28-R29-R30-D01-D02-D03-D04-D05-D07-D08-D09-D17-D21-D23-D24-D27	
C30 D01-D02-D03-D04-D05-D07-D08-D09-D17-D21-D23-D24-D27	
C29 R03·R06·R07·R09·R13·R21-R22:R23·R25·R26·R27·R28·R29·R31- D00-D02-D03-D04-D05-D06-D08-D09-D10-D18-D22-D24-D25-D28	
C28 R02-R05-R06-R08-R12-R20-R21-R22-R24-R25-R26-R27-R28-R30- D01-D03-D04-D05-D06-D07-D09-D10-D11-D19-D23-D25-D26-D29	
O27 R01-R04-R05-R07-R11-R19-R20-R21-R23-R24-R25-R26-R27-R29- D02-D04-D05-D06-D07-D08-D10-D11-D12-D20-D28-D27-D30	0.
R00-R03-R04-R06-R10-R18-R19-R20-R22-R23-R24-R25-R26-R27-R26-R21-D00-D03-D05-D06-D07-D08-D09-D11-D12-D13-D21-D25-D27-D28-	31
R02-R03-R08-R11-R15-R17-R18-R19-R21-R22-R28-R29-R31- D00-D02-D03-D08-D10-D12-D13-D14-D16-D20-D23-D28-D29	
R01-R02-R07-R10-R14-R16-R17-R18-R20-R21-R27-R28-R30- D01-D03-D04-D10-D11-D13-D14-D15-D17-D21-D24-D29-D30	
C23 R00-R01-R06-R09-R13-R15-R16-R17-R19-R20-R28-R27-R29-R31- D00-D02-D04-D05-D11-D12-D14-D16-D16-D18-D22-D25-D30-D31	
C22 R00-R09-R11-R12-R14-R18-R18-R19-R23-R24-R26-R27-R29-R31- D00-D02-D04-D05-D07-D08-D12-D13-D15-D17-D18-D20-D22-D31	
R05-R09-R10-R13-R17-R18-R22-R24-R26-R27-R29-R31- D00-D02-D04-D05-D07-D09-D13-D14-D18-D21-D22-D28	
C20 R04-R08-R09-R12-R16-R17-R21-R23-R25-R26-R28-R30- D01-D03-D05-D06-D08-D10-D14-D15-D19-D22-D23-D27	
R03-R07-R08-R11-R15-R16-R20-R22-R24-R25-R27-R29- D02-D04-D06-D07-D09-D11-D15-D16-D20-D23-D24-D28	
C18 R02·R05·R07·R10·R14·R15·R19·R21·R23·R24·R26·R28·R31· D00-D03·D05·D07·D08·D10-D12·D16·D17-D21·D24·D25·D29	
C17 R01-R05-R06-R09-R13-R14-R18-R20-R22-R25-R27-R30-R31- D00-D01-D04-D08-D08-D09-D11-D13-D17-D18-D22-D25-D28-D30	
C16 R00-R04-R05-R08-R12-R13-R17-R19-R21-R22-R24-R28-R29-R30- D01-D02-D05-D07-D09-D10-D12-D14-D18-D19-D23-D28-D27-D31	

#### FIG.21 (PRIOR ART)

	1
C15	R03-R04-R05-R07-R08-R09-R12-R15-R16-R18-R20-R21-R24-R27-R30- D01-D04-D07-D10-D11-D13-D15-D16-D19-D22-D23-D24-D26-D27-D28
014	R02-R03-R04-R06-R07-R08-R11-R14-R15-R17-R19-R20-R23-R26-R29- D02-D05-D08-D11-D12-D14-D16-D17-D20-D23-D24-D25-D27-D28-D29
C13	R01-R02-R03-R05-R06-R07-R10-R13-R16-R19-R22-R26-R31- D00-D03-D06-D09-D12-D13-D15-D17-D18-D21-D24-D25-D26-D28-D29-D30
012	R00+R01-R02+R04+R05+R06+R09+R12+R13+R15+R17+R18-R24+R30+R31+ D00+D01+D04+D07-D10+D13-D14+D16+D18+D19+D22+D25+D26+D27+D29+D30+ D31
011	R00-R01-R03-R04-R09-R12-R14-R15-R16-R17-R20-R24-R25-R26-R27-R 28-R31-D00-D03-D04-D05-D06-D07-D11-D14-D15-D16-D17-D19-D22-D27- D28-D30-D31
C10	R00-R02-R03-R05-R09-R13-R14-R16-R19-R26-R28-R29-R31- D00-D02-D03-D05-D12-D15-D17-D18-D22-D26-D28-D29-D31
C08	R01+R02-R04+R05-R09+R11+R12+R13+R18+R23+R24+R29+ D02+D07+D08+D13-D18+D19-D20+D22+D26+D27+D29+D30
C08	R00-R01-R03-R04-R08-R10-R11-R17-R22-R28-R31- D00-D03-D08-D09-D14-D19-D20-D21-D23-D27-D28-D30-D31
C07	R00+R02+R03+R05-R07-R08+R10+R15+R16+R21+R22+R23+R24+R28-R29+ D02+D03+D06+D07+D08-D09+D10+D16+D16+D21+D23+D24+D26+D28+D29+D31
C06	R01-R02-R04-R05-R06-R07-R08-R11-R20-R21-R25-R30- D01-D02-D06-D09-D10-D11-D17-D20-D23-D24-D25-D26-D27-D29-D30
C05	R00-R01-R03-R04-R05-R06-R07-R10-R13-R19-R20-R21-R24-R28-R29- D02-D03-D07-D10-D11-D12-D18-D21-D24-D25-D26-D27-D28-D30-D31
C04	R00-R02-R03-R04-R06-R08-R11-R12-R15-R18-R19-R20-R24-R25-R29- R30-R31-D00-D01-D02-D06-D07-D11-D12-D13-D16-D19-D20-D23-D25-D27- D28-D29-D31
C03	R01-R02-R03-R07-R08-R09-R10-R14-R15-R17-R18-R19-R25-R27-R31- D00-D04-D06-D12-D13-D14-D16-D17-D21-D22-D23-D24-D28-D29-D30
C02	R00-R02-R08-R07-R08-R09-R13-R14-R16-R17-R18-R24-R26-R30-R31- D00-D01-D05-D07-D13-D14-D15-D17-D18-D22-D23-D24-D25-D29-D30-D31
C01	R00+R01+R08-R07-R09-R11+R12-R13+R18+R17-R24+R27+R28+ D03+D04+D07-D14+D15-D18-D19-D20-D22-D24-D25-D30-D31
C00	R00-R08-R09-R10-R12-R16-R24-R25-R26-R26-R29-R30-R31- D00-D01-D02-D03-D05-D06-D07-D15-D19-D21-D22-D25-D31





#### FIG.23 (PRIOR ART)

C15	R03+R04+R05+R09+R11-R12+R14+R15+ D00-D01-D03-D04-D08-D09-D11-D12-D17-D19-D20-D24-D28
G14	R02-R03-R05-R08-R10-R11-R13-R14-
017	D01+D02+D04+D05+D07+D10+D12+D13+D18+D20+D21+D25+D29
C13	R01-R02-R04-R07-R09-R10-R12-R13-R15-
013	D00-D02-D03-D05-D06-D08-D11-D13-D14-D19-D21-D22-D26-D30
C12	R00-R01-R03-R06-R08-R08-R11-R12-R14-
	D01-D03-D04-D08-D07-D08-D12-D14-D15-D20-D22-D23-D27-D31
	R00-R02-R03-R04-R05-R06-R07-R08-R09-R10-R12-R13-R14-R15-
011	D00-D01-D02-D03-D05-D06-D07-D08-D09-D10-D11-D12-D13-D15-D16-D17-
	D19-D20-D21-D23 R01-R02-R03-R04-R05-R08-R07-R08-R09-R11-R12-R13-R14-R15-
C10	D00-D01-D02-D03-D04-D06-D07-D08-D09-D10-D11-D12-D13-D14-D16-D17-
Civ	D18-D20-D21-D22-D24
-	R00-R01-R02-R03-R04-R05-R06-R07-R06-R10-R11-R12-R13-R14-R15-
C09	D00-D01-D02-D03-D04-D05-D07-D08-D09-D10-D11-D12-D13-D14-D15-D17-
	D18-D19-D21-D22-D23-D25
	R00-R01-R02-R03-R04-R05-R06-R07-R09-R10-R11-R12-R13-R14-
800	D01-D02-D03-D04-D05-D05-D08-D09-D10-D11-D12-D18-D14-D15-D16-D18-
	D19·D20·D22·D23·D24·D26
	R00-R01-R02-R03-R04-R05-R06-R08-R09-R10-R11-R12-R13-
C07	
	D20-D21-D23-D24-D25-D27
	R00-R01-R02-R03-R04-R05-R07-R08-R09-R10-R11-R12-
C05	D03-D04-D05-D06-D07-D08-D10-D11-D12-D13-D14-D15-D16-D17-D18-D20-
<b> </b>	D21-D22-D24-D25-D26-D28
	R00·R01·R02·R03·R04·R06-R07·R08·R09·R10·R11· D04·D05·D06·D07·D08-D09·D11·D12·D13·D14·D15·D16·D17·D18·D19·D21·
C05	D22-D23-D25-D26-D27-D29
<del> </del>	R00·R01-R02-R03·R05-R06-R07-R08-R09-R10-R15-
C04	1
	D22-D23-D24-D26-D27-D28-D30
	R00-R01-R02-R04-R06-R06-R07-R08-R09-R14-R15-
003	D00-D01-D08-D07-D08-D09-D10-D11-D13-D14-D15-D16-D17-D18-D19-D20-
	D21-D23-D24-D25-D27-D28-D29-D31
	R00-R01-R05-R07-R08-R09-R11-R12-R13-R15-
C02	D00-D02-D03-D04-D08-D07-D08-D10-D14-D15-D16-D18-D21-D22-D25-D26-
<u></u>	D29 · D30
	R00-R04-R06-R07-R08-R10-R11-R12-R14-R15- D00-D01-D03-D04-D05-D07-D08-D09-D11-D15-D16-D17-D19-D22-D23-D25-
001	
	D27+D30+D31   R04+R05+R07+R10+R12+R13+R15+
COO	D00-D02-D03-D05-D08-D10-D11-D18-D18-D19-D23-D27-D31
1	200 000 000 000 000 000 000 000 000 000

4.7	.												$CR_{14}$	(BD;	$DB_{12}CRC32_{2}$	$DB_{1S}CRC32s$	$DB_{10}$ CRC32 $_{0}$ CRC16 $_{o}$	$\overline{DB_{II}}$ CRC3 $2_I$ CRC $16_I$
9#	$\nearrow$							$BD_4$	DB12 CRC32	$\mathcal{IRC}32_{\mathcal{S}}$			$CR_{13}$	(BD)	L	1	CRC320	CRC321
#2	$\nearrow$					$CR_{o3}$	$BD_3$	$BD_3$	$DB_{12}$	DB <sub>13</sub> CRC32 <sub>3</sub>	CRC320	CRC321	$CR_{12}$	$BD_2$	$DB_{g}$	$DB_9$	نا	
#	$BD_3 \setminus$	DB12	DB13			$CR_{02}$ $CR_{03}$	$BD_2$	$BD_2$	$DB_8$	$DB_g$	DB10 CRC320	DB11 CRC321	$CR_{11}$	$ BD_1\rangle$	DB4	$DB_{\delta}$	$DB_6$	$DB_7$
#3	$BD_2  angle$	DB <sub>8</sub>	DB <sub>9</sub>	$DB_{10}$	$DB_{11}$	$CR_{OI}$	$BD_1$	$BD_1$	DB4	$DB_{6}$	$DB_6$	$DB_7$	$CR_{10}$	BB	$DB_{o}$	$DB_1$	$DB_2$	$DB_3$
7#	$BD_1$	$DB_4$	$DB_{5}$	$DB_6$	$DB_7$	$CR_{00}$	$BD_b$	$BD_b$	$DB_{o}$	DB,	DB,	DB3						
#1	$BD_o  angle$	$DB_0$	DB,	DB2	$DB_3$					<u>.l.</u>	<b></b>	- <del></del>						
	$\nearrow$		Ļ		l	<b>'</b>			า์						1			
	$D_o$					$D_5$	$D_2$	$D_s$					$D_{6}$	$D_{s}$				
•	$(1)  D_0$					(2)	(3)	<u>(4)</u>					(9)	9				

FIG.24 (PRIOR ART)